

Ziad Mohamed Sheashaa

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Summary

Motivated and curious, with a passion for continuous learning. Experienced in programming and technology, with growing expertise in AI, software development, and data-driven solutions. Creative, analytical, and detail-oriented.

Education

Suez Canal University (SCU), BE in Computer Engineering	Jul 2026
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Summer Training

Generative AI Training — ITI	Jul 2025 – Aug 2025
Artificial Intelligence Training — ITI	Jul 2024 – Aug 2024

Courses

ROS2 — Robotics Corner	Dec 2024 – May 2025
Software Engineering — Robotics Corner	Aug 2024 – Dec 2024
Deep Learning — E.Camp	Jul 2024 – Aug 2024
Artificial Intelligence Training — ITI	Jul 2024 – Aug 2024
Machine Learning — E.Camp	Feb 2024 – Mar 2024
Artificial Intelligence — Zewail City of Science and Technology	Aug 2023 – Nov 2023
Artificial Intelligence — Huawei	Jan 2023 - Feb 2023

Volunteering Activities

AI Team Vice Leader, Microsoft Student Community - SCU	Mar 2025 – Present
• Designing and leading an AI training program for students	
Autonomous Driving Team Leader, Racing Team SCU	Oct 2024 – Present
• Trained and mentored 20 members in autonomous driving software development	
• Supervised project progress and guided members in problem-solving and system design	
Autonomous Driving Team Member, Racing Team - SCU	Mar 2024 – Oct 2024
• Built an Autonomous Driving System for the SCU Racing Team	
• Competed in the EVER Gen 5th international competition for electric cars	
AI Technical Member, IEEE - SCU	Oct 2023 – Present
• Contributed to technical projects and workshops in computer engineering, software development, and machine learning	
• Developed a recommendation system using Python, HTML/CSS/JS, MongoDB, and unsupervised ML algorithms	
• Mentored new members in AI algorithms and data analysis methodologies	

Certifications

HCIA-AI – Huawei	Jan 2023
Career Essentials in Generative AI - Microsoft & LinkedIn	Nov 2023

Projects

NASA 2025 - TERRA Climate Education Platform — Next.js, TypeScript, React, Scikit-learn	Oct 2025
<ul style="list-style-type: none">Developed machine learning models using Scikit-learn to predict future climate patterns from historical NASA Earth observation dataIntegrated Gemini API-powered chatbot with custom prompt engineering to deliver domain-specific climate insights and personalized environmental guidanceBuilt interactive educational game that visualizes the impact of user decisions on climate using ML predictionsCreated engaging platform to raise climate awareness among youth through gamification and AI-driven feedback	
Cascade Classifier for Object Detection — C++, Qt, OpenCV	Dec 2024
<ul style="list-style-type: none">Implemented a face object detection model using Haar cascade classifierIntegrated GUI in Qt for real-time detection and performance visualization	
Autonomous Driving System (EVER Gen 5th Competition) — ROS, Python, C++	Aug 2024
<ul style="list-style-type: none">Developed core software modules for the SCU Racing Team's autonomous vehicleImplemented perception and control pipelines using ROS2 and PythonContributed to the team's participation in the EVER Gen 5th international competition for electric cars	
Hand Sign Classifier — Python, TensorFlow, Arduino, C++	Feb 2024
<ul style="list-style-type: none">Collected and curated multiple custom datasets for hand sign recognitionTrained and evaluated several models, achieving 89% accuracy on 10 distinct signsIntegrated the trained model with Arduino and LCD to display real-time sign translations	
Recommendation System — Python, HTML/CSS/JS, MongoDB, Scikit-learn	Mar 2023
<ul style="list-style-type: none">Built a movie recommendation system using unsupervised ML algorithmsDesigned full-stack integration with MongoDB backend and web interface	

Skills

- Programming Languages:** C++, Python, JavaScript, SQL
- Frameworks & Libraries:** ROS2, OpenCV, TensorFlow, PyTorch
- Tools & Platforms:** Git & GitHub, Linux, Docker, MongoDB, CMake, Makefile
- Software Engineering:** Data Structures & Algorithms, OOP, SOLID Principles, Design Patterns
- AI & ML:** Machine Learning, Deep Learning, Computer Vision, Generative AI

Languages

- Arabic – Native
- English – Intermediate